

Response Action Contract for Remedial, Enforcement Oversight, and Non-Time Critical Removal Activities at Sites of Release or Threatened Release of Hazardous Substances in EPA Region VIII

ADMINISTRATIVA RECORD

U.S. EPA Contract No. 68-W5-0022

Remedial Investigation and Removal Action Work Plan for Riverside Park - Final RI Results Addendum Libby Asbestos Site, Operable Unit 4

September 26, 2003

Work Assignment No.: 137-RIRI-08BC Document Control No.: 3282-137-PP-SAMP-18755

Prepared for:
U.S. Environmental Protection Agency
Region VIII
999 18th Street, Suite 500
Denver, Colorado 80202

Prepared by: CDM 1331 17<sup>th</sup> Street, Suite 1050 Denver, Colorado 80202

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Prepared by:	Jeff Montera	Date: <u>25 55pr 03</u>
Reviewed by: <u>\</u>	CDM Project Scientist  Geoff McKenzie  CDM Project Engineer	Date: <u>9 25 03</u>
Reviewed by:	Terry Crowell CDM Quality Assurance Coord	Date: <u>25 SEPF 03</u> linator
Approved by:	Jim Christiansen EPA Region VIII Remedial Proje	Date: <u>9/26/03</u> ect Manager

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CDM

### **Acronyms**

bgs below ground surface

CDM CDM Federal Programs Corporation

DQO data quality objective

EPA U.S. Environmental Protection Agency

ES embankment sample FSDS field sample data sheet

H&S health and safety
IFF information field form
LA Libby amphibole

PCM phase contrast microscopy

PS park sample QC quality control

Reservoirs Reservoirs Environmental Services Inc.

RI remedial investigation RS riverbank sample

TEM transmission electron microscopy

TP test pit

TS Thomas Street sample

Volpe U.S. Department of Transportation Volpe Center

< less than micron

## Section 1 Introduction

A remedial investigation (RI) was conducted at Riverside Park between September 9 and 15, 2003 in accordance with the Remedial Investigation and Removal Action Work Plan for Riverside Park (CDM Federal Programs Corporation [CDM] 2003a). The purpose of this addendum is to present the RI activities conducted and analytical results, and based on that information, identify boundaries for removal.



### Section 2 Remedial Investigation

In accordance with the Remedial Investigation and Removal Action Work Plan for Riverside Park (CDM 2003a), CDM conducted pre-removal characterization activities at Riverside Park. These activities included verbal interviews with city park personnel, visual inspection of the site, and collection of both surface and subsurface soil samples. These activities were completed between September 9 and 15, 2003.

#### 2.1 Verbal Interview

CDM met with Dan Thede, director of public services for the City of Libby, on September 15, 2003 to discuss historical use of Riverside Park. An information field form (IFF) was completed during the interview and can be found in Appendix A.

#### 2.2 Visual Inspection

CDM conducted an initial inspection of the site on May 22, 2003. Details regarding that inspection can be found in the remedial investigation and removal action work plan (CDM 2003a). Additional inspections were completed between September 9 and 13, 2003. Vermiculite was observed at several locations within the park but was generally concentrated in areas on the river side of the former access road that ran through the property, including the entire length of the riverbank. Trace to moderate amounts of vermiculite were also observed on the southwest side of the embankment (export plant side) of City Service Road. Lastly, an isolated area of vermiculite was located at the bottom of the embankment of West Thomas Street on the east side of Highway 37. All locations of vermiculite found during visual inspections are shown on Figure 2-1. Logbook pages from the work at Riverside Park can be found in Appendix B.

#### 2.3 Soil Sampling

Soil sampling activities occurred between September 9 and 13, 2003 and included both surface soil samples and subsurface test pit samples. All soil samples were collected in accordance with the remedial investigation and removal action work plan (CDM 2003a). Logbook pages can be found in Appendix B and field sample data sheets (FSDSs) can be found in Appendix C. Details regarding this sampling is discussed below.

#### 2.3.1 Surface Soil Samples

Park Samples (PS)

Seven surface soil samples were collected within the park (Figure 2-2). All proposed sampling locations were sampled (i.e., no locations needed to be either deleted or moved due to visible vermiculite) and no additional samples were collected. Visible



vermiculite was observed near sample locations (CS-16687 and CS-16688); however, no vermiculite was seen in either sample collected at those locations.

#### Riverbank Samples (RS)

Three surface soil samples were collected along the riverbank on the north side of the park (Figure 2-2). Information regarding the remaining four proposed riverbank samples (RS-1, RS-3, RS-4, and RS-7) is discussed in Section 3.1.

#### **Embankment Samples**

Nine surface soil samples were collected on the north and five surface samples were collected on the south side of the embankment of City Service Road between Highway 37 and the entrance to the park (Figure 2-2). Embankment samples were collected at 50-foot intervals as described in the remedial investigation and removal action work plan (CDM 2003a). Figure 2-1 of the work plan showed eight sample locations; however, sampling at 50-foot intervals resulted in 14 sample locations. Trace to moderate amounts of vermiculite were observed on the southwest side of the embankment (former export plant side); conversely, no vermiculite was seen on the northeast side of the embankment (Riverside Park side).

#### Thomas Street Samples (TS)

Thomas Street samples have not been collected thus far. The owner has been contacted but has not responded to grant access to the property.

#### 2.3.2 Subsurface Soil Samples

#### **Test Pit Samples**

The 11 proposed test pits were excavated and sampled. All proposed test pit locations were excavated (i.e., no locations needed to be either deleted or moved due to visible vermiculite). The final work plan stipulated that six of the test pits would have a second test pit excavated offset either 50 feet toward the former export plant or 30 feet toward the river, depending on whether or not visible vermiculite was encountered in the six test pits. Four of these secondary, offset test pits were excavated. The two remaining secondary test pit locations (TP-2a and TP-5a) were not excavated as proposed. Information about these two sampling locations can be found in Section 3.1.

If visible vermiculite was observed in the test pits, the sampling team noted the observation in the field logbook. Observations regarding visible vermiculite seen in or around test pit excavation locations are presented in Table 2-1. Test pits not included in the table did not have visible vermiculite observed in them.



Table 2-1. Test Pit Observation Details

Sample Location	Details
TP-3	<ul> <li>Significant vermiculite was observed over the entire boat ramp in the vicinity of this sample location and the parking area adjacent to the northern picnic area.</li> <li>Fine to coarse sandy gravel (road base) with significant vermiculite at 0" to 5" interval.</li> <li>Significant raw vermiculite at 5" to 8" interval.</li> <li>No vermiculite observed below 8".</li> <li>No vermiculite observed in sample.</li> </ul>
TP-5	<ul> <li>Fine to medium gravelly sand with significant vermiculite at 0" to 2" interval.</li> <li>Surface silty sand with significant vermiculite. At 2" –to 6" interval.</li> </ul>
TP-6	<ul> <li>A few flakes observed at the 18" interval.</li> <li>Test pit offset 30' toward river</li> <li>Trace amounts of vermiculite observed at 8" below ground surface (bgs).</li> </ul>
TP-7	<ul> <li>Asphalt observed at 0" to 2" interval.</li> <li>Fine to coarse sandy gravel with significant vermiculite at 2" to 4" interval.</li> <li>Geotech fabric observed at 4" bgs.</li> <li>Fine to coarse sand with fine to coarse gravel with significant vermiculite at 4" to 8" interval.</li> </ul>
TP-8	<ul> <li>Significant amounts of vermiculite observed at surface.</li> <li>No vermiculite observed bgs.</li> </ul>
TP-9	■ Significant amounts of vermiculite observed at 0" to 6" interval.
TP-11	<ul> <li>Trace amounts of vermiculite observed at surface.</li> <li>No vermiculite observed bgs.</li> </ul>



## Color Map(s)

The following pages contain color that does not appear in the scanned images.

To view the actual images, please contact the Superfund Records Center at (303) 312-6473.



Figure 2-1 Visible Vermiculite Location Map Riverside Park Libby, Montana

# Legend

Location of Visible Vermicluite



Feet 50 100

CDD

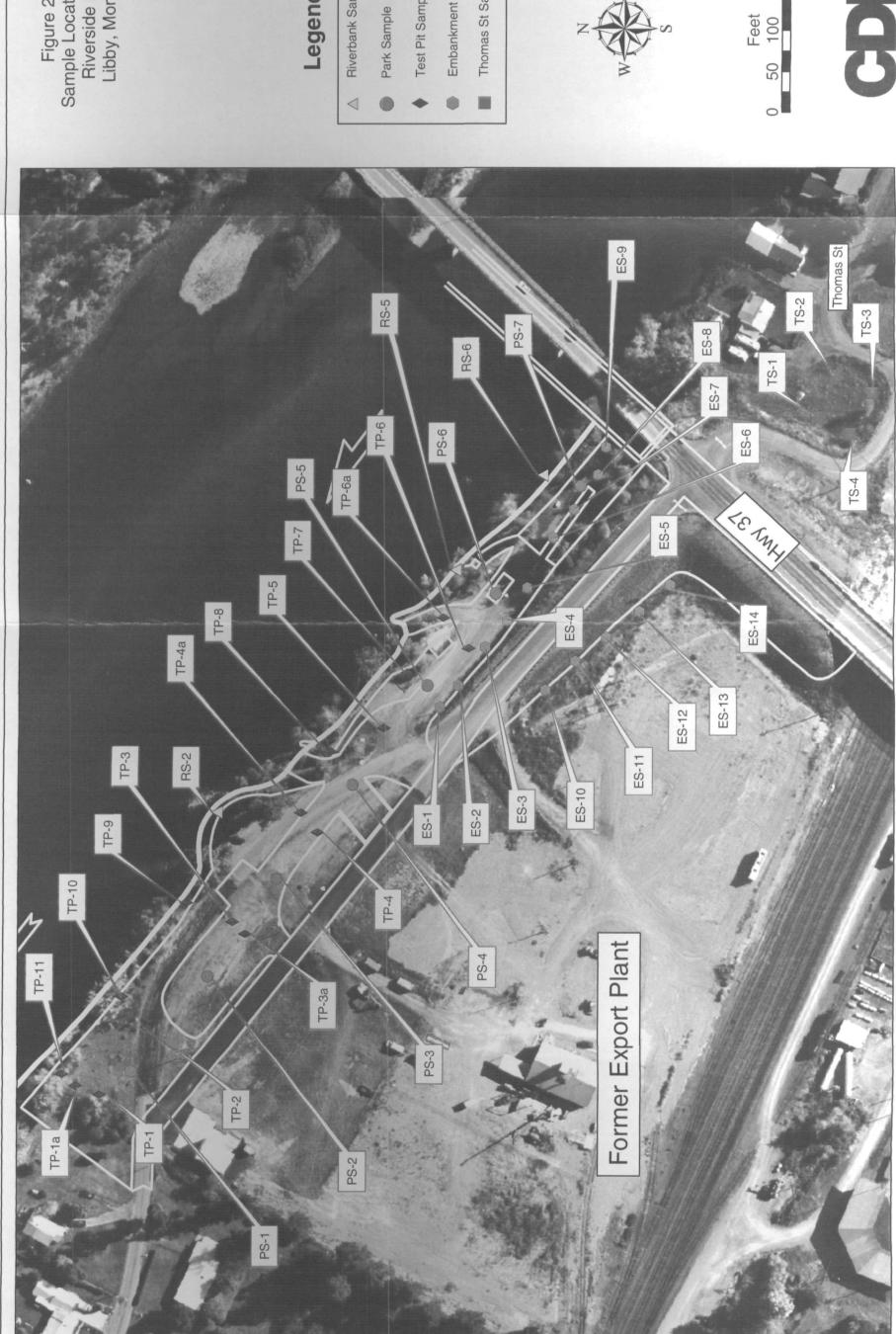


Figure 2-2 Sample Location Map Riverside Park Libby, Montana

# Legend

Riverbank Sample

Test Pit Sample

**Embankment Sample** 

Thomas St Sample

Feet 50 100

200

CDD

## Section 3 **Quality Assurance**

Quality assurance for the remedial investigation sampling at Riverside Park is addressed in the following four subsections: deviations from the sampling and analysis plan, usability of the data, achievement of data quality objectives (DQOs), and summary of quality control (QC) activities.

## 3.1 Deviations from the Sampling and Analysis Plan 3.1.1 Surface Soil Samples

#### Park Samples

■ Park Sample 4 (PS-4) – vermiculite was observed at the 0 to 6 inch interval in the northern subsample at this sampling location. Therefore, only a 4-point composite, excluding the northern subsample, was submitted for this sample.

#### Riverbank Samples

- Riverbank Sample 1 (RS-1) this sample was not collected due to the presence of visible vermiculite at this location.
- Riverbank Sample 3 (RS-3) this sample was not collected due to the presence of visible vermiculite at this location.
- Riverbank Sample 4 (RS-4) this sample was not collected due to the presence of visible vermiculite at this location.
- Riverbank Sample 7 (RS-7) this sample was not collected due to the presence of visible vermiculite at this location.

#### 3.1.2 Subsurface Soil Samples

#### Test Pit Samples

- Test Pit 2 (TP-2) the offset test pit (TP-2a) was not excavated at this location due to its proximity to test pit 10.
- Test Pit 3 (TP-3) the offset test pit (TP-3a) was excavated at a 30-foot interval (toward the road) versus the required 50-foot interval because the marking for a fiber optic line crossed the location of the 50 foot offset interval.



■ Test Pit 5 (TP-5) ~ the offset test pit (TP-5a) was not excavated at this location due to its proposed location (30 feet closer to the river) being in the Kootenai River.

#### 3.2 Usability of the Data

The remedial investigation data were neither evaluated nor validated. Therefore, it is assumed that the raw data are usable for their intended purpose, which is to determine removal objectives for the site, delineate excavation limits of contaminated soils, and develop guidelines for subsequent restoration activities.

#### 3.3 Achievement of Data Quality Objectives

Data quality objectives were met and will be discussed in detail in the RI report.

#### 3.4 Summary of Quality Control Activities

Two types of QC samples were collected during this investigation, field duplicate samples and field equipment blanks. Field duplicate samples were collected at a rate of 1 per 20, and field equipment blanks were collected at a rate of 1 per day. Both types of QC samples were collected in accordance with the Remedial Investigation and Removal Action Work Plan for Riverside Park (CDM 2003a).

All additional QC activities for the Riverside park investigation were completed in accordance with the CSS SAP Revision 1 (CDM 2003b).



## Section 4 Results

A sample collection key is presented in Table 4-1. A summary of all sample results is presented in Table 4-2. Detailed bench sheets are included as Appendix D.

Table 4-1. Sample Collection Key

	Sample Location	index id	Sample Date	No. of Subsamples	Sample Interval
ž s	RS-2	CS-16694	9/9/03	5	0-6 inches
Riverbank Samples	RS-5	CS-16695	9/9/03	5	0-6 inches
\( \frac{1}{2} \)	RS-6	CS-16696	9/9/03	5	0-6 inches
	PS-1	CS-16686	9/9/03	5	0-6 inches
ړ	PS-2	CS-16687	9/9/03	5	0-6 inches
Samples	PS-3	CS-16688	9/9/03	5	0-6 inches
San	PS-4	CS-16689	9/9/03	4	0-6 inches
Park	PS-5	CS-16691	9/9/03	5	0-6 inches
۵	PS-6	CS-16692	9/9/03	5	0-6 inches
	PS-7	CS-16693	9/9/03	5	0-6 inches
	TP-1	CS-16698	9/10/03	Grab	36-38 inches
	TP-1a	CS-16842	9/12/03	Grab	36-38 inches
	TP-2	CS-16699	9/10/03	Grab	36-39 inches
	TP-3	CS-16700	9/10/03	Grab	14-16 inches
i	TP-3a	CS-16821	9/10/03	Grab	36-38 inches
S	TP-4	CS-16835	9/12/03	Grab	36-38 inches
Test Pit Samples	TP-4a	CS-16836	9/12/03	Grab	36-38 inches
it Sa	TP-5	CS-16837	9/12/03	Grab	12-18 inches
st P	TP-6	CS-16839	9/12/03	Grab	36-38 inches
_ fe	TP-6a	CS-16846	9/12/03	Grab	36-38 inches
	TP-7	CS-16845	9/12/03	Grab	14-16 inches
	TP-8	CS-16838	9/12/03	Grab	36-38 inches
	TP-9	CS-16844	9/12/03	Grab	12-14 inches
	TP-10	CS-16843	9/12/03	Grab	36-38 inches
	TP-11	CS-16841	9/12/03	Grab	36-38 inches

Table 4-1. Sample Collection Key (continued)

	Sample Location	Index Id	Sample Date	No. of Subsamples	Sample Interval
	ES-1	CS-16848	9/13/03	5	0-6 inches
	ES-2	CS-16849	9/13/03	5	0-6 inches
	ES-3	CS-16850	9/13/03	5	0-6 inches
	ES-4	CS-16851	9/13/03	5	0-6 inches
Ş	ES-5	CS-16853	9/13/03	5	0-6 inches
mple	ES-6	CS-16854	9/13/03	5	0-6 inches
Embankment Samples	ES-7	CS-16855	9/13/03	5	0-6 inches
ктег	ES-8	CS-16856	9/13/03	5	0-6 inches
ban	ES-9	CS-16857	9/13/03	5	0-6 inches
Εm	ES-10	CS-16858	9/13/03	5	0-6 inches
	ES-11	CS-16859	9/13/03	5	0-6 inches
	ES-12	CS-16860	9/13/03	5	0-6 inches
	ES-13	CS-16861	9/13/03	5	0-6 inches
	ES-14	CS-16862	9/13/03	5	0-6 inches

Table 4-2. Sample Results

		Tubic 4 2. 0	ample Results
	Sample Location	Index Id	Results
돌·호	RS-2	CS-16694	ND
Riverbank Samples	RS-5	CS-16695	ND
Rive	RS-6	CS-16696	ND
	PS-1	CS-16686	TR
Se	PS-2	CS-16687	ND
Samples	PS-3	CS-16688	ND
Sa	PS-4	CS-16689	ND
Park	PS-5	CS-16691	TR
۵	PS-6	CS-16692	ND
	PS-7	CS-16693	ND
	TP-1	CS-16698	ND
	TP-1a	CS-16842	ND
	TP-2	CS-16699	ND
	TP-3	CS-16700	ND
	TP-3a	CS-16821	ND
les	TP-4	CS-16835	ND
E	TP-4a	CS-16836	ND
t S.	TP-5	CS-16837	ND
Test Pit Samples	TP-6	CS-16839	TR
řě	TP-6a	CS-16846	ND
	TP-7	CS-16845	ND
	TP-8	CS-16838	ND
	TP-9	CS-16844	ND
	TP-10	CS-16843	ND
	TP-11	CS-16841	ND
	ES-1	CS-16848	TR
ļ	ES-2	CS-16849	ND
	ES-3	CS-16850	TR
ر ا	ES-4	CS-16851	ND
ble	ES-5	CS-16853	ND
Sam	ES-6	CS-16854	ND
ž	ES-7	CS-16855	TR
ğ	ES-8	CS-16856	TR
Jaul	ES-9	CS-16857	TR
Embankment Samples	ES-10	CS-16858	<1%
_	ES-11	CS-16859	TR
1	ES-12	CS-16860	TR
	ES-13	CS-16861	TR
	ES-14	CS-16862	TR

ND – non detect TR – trace <1% - less than 1% LA Analytical Method - SRC-Libby-03-Rev0, visual estimation Laboratory – Reservoirs Environmental Services, Inc.



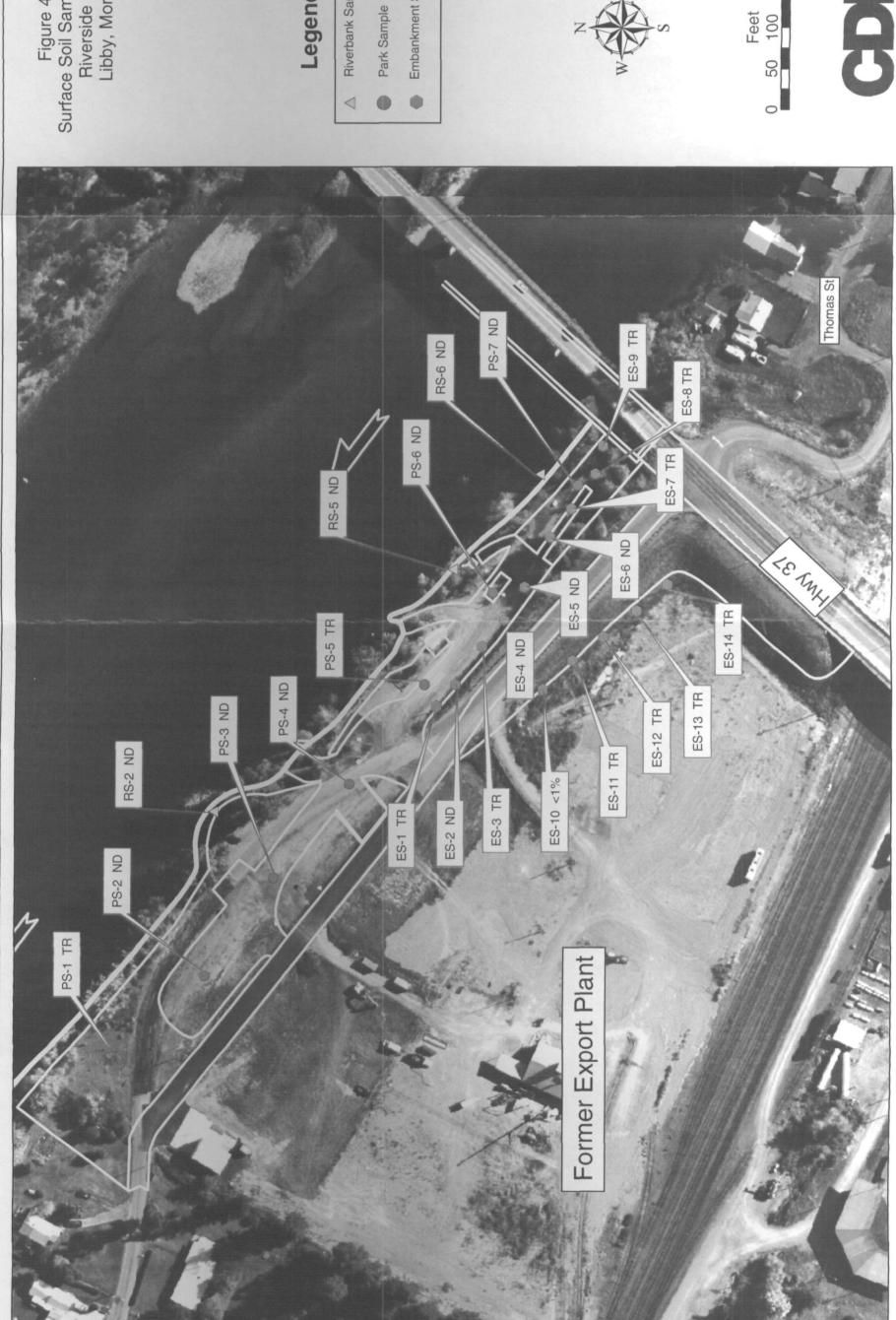
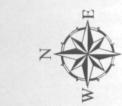


Figure 4-1
Surface Soil Sample Results
Riverside Park
Libby, Montana

# Legend

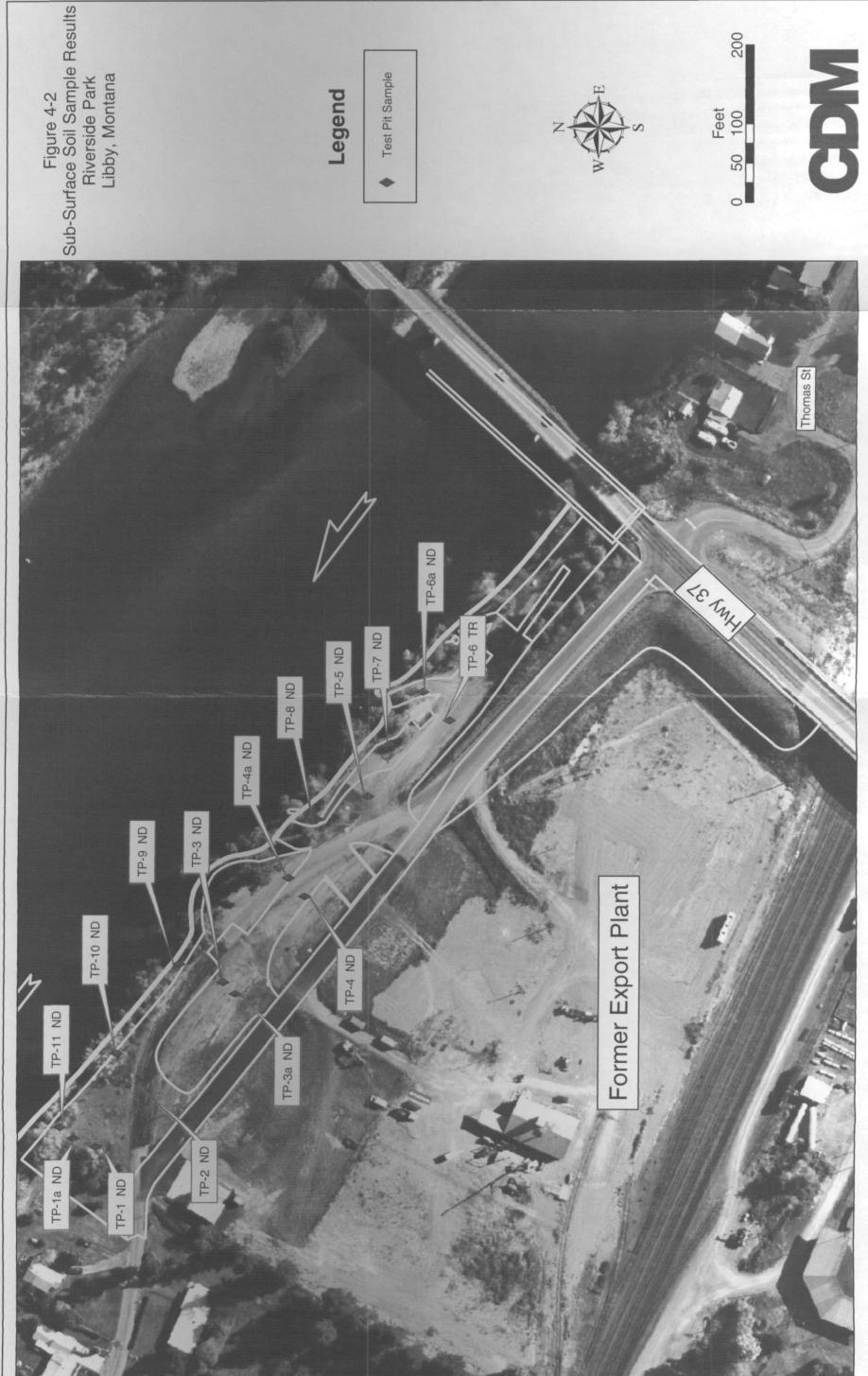
Riverbank Sample

**Embankment Sample** 



Feet 100

200



### Section 5 Findings and Removal Action

A discussion of the findings of the remedial investigation at Riverside Park is presented in Section 5.1, and the resulting excavation limits is presented in Section 5.2. Additional details concerning the approach to restoring the riverbank following excavation of contaminated soils is provided in Section 5.3.

#### 5.1 Findings

The visual inspection of the site indicated that visible vermiculite is pervasive at the surface on the river side of the former access road that ran through the property, including the entire length of the riverbank. It was also identified at other locations in the park and on the southwest side of the embankment of City Service Road immediately west of Highway 37 (see Figure 2-1).

Surface samples, generally located in areas without visible vermiculite, identified areas with trace to less than (<) 1 percent Libby amphibole (LA) asbestos in several locations, including the northwest end of the site, the southeast end of the site, and along the southwest side of the embankment of City Service Road.

Visual inspection of the test pits excavated at the site in areas of surficial visible vermiculite determined that visible vermiculite was located at depths up to 8 inches bgs. Sampling of the test pit soils below the depths of visible vermiculite and in areas without visible vermiculite found no LA asbestos with the exception of Test Pit 6 where a trace of LA asbestos was found.

Based on the visual inspection, and the surface and subsurface sampling discussed above, visible vermiculite and LA asbestos are generally located in the top 6 to 8 inches of soil throughout the Riverside Park site.

#### 5.2 Excavation Limits

Based on the findings of the remedial investigation discussed above, site soils will be excavated in accordance with the final work plan for the site. In general, soils will be excavated to a depth of 12 inches throughout the entire Riverside Park site, except the riverbank and the embankment on the northeast side (the river side) of City Service Road. Soil will be excavated at these two locations to a depth of 6 inches. It should be noted that excavation of the embankment on the southwest side of City Service Road (the export plant side) will be conducted at a later date, in conjunction with other cleanup in the area.

Following the initial excavation cuts, a CDM oversight representative will inspect the excavation to determine if visible vermiculite is still present. If it is, the cleanup construction contractor will be directed to excavate an additional 6 inches of soil until visible vermiculite is no longer observed or until the maximum excavation depth is



reached. Maximum excavation depths will be 3 feet across the site, except for the riverbank and the embankment on the northeast side of City Service Road where it will be 12 inches.

Once excavation is deemed complete by the CDM representative, confirmation sampling will be conducted in accordance with the final work plan, unless significant quantities of vermiculite are still visible at the maximum excavation depths. If this occurs, it will be noted in the field logbook maintained by the CDM oversight representative, and the cleanup/construction contractor will be directed to place a geotextile fabric over the area as marker for future excavation work at the site.

During excavation of the riverbank, excavation will be conducted down the slope to the water's edge, or to the bottom of the slope. Excavation will not be conducted in the water or on the relatively flat flood plain areas that exist in some locations above the current elevation of the water. Also, the excavation efforts will include flattening the slope at the top of the bank where feasible, as directed by the CDM oversight representative.

A preliminary estimate of the amount of soil requiring removal from the site is 6,100 cubic yards based on the estimated area of the site and the planned depths of excavation. This estimate of excavation quantities may increase based on visual observations and sampling during cleanup/construction.

#### 5.3 Site Restoration

The final work plan includes a discussion of the planned restoration of the site. Based on the discussions with the city and observations of the conditions of the riverbank during and following the remedial investigation work, additional details of the riverbank restoration were developed. These details follow.

In general, restoration of the riverbank will include the placement of 6 to 12 inches of topsoil, depending on the amount of soil excavated, followed by dry-seeding of a government-approved seed mix and the placement of an erosion control mat on top of the topsoil. The erosion control mat will not include nylon webbing.

In the area just downstream of the new boat ramp, the city has placed riprap along the toe of the bank. This riprap will be left in place during excavation, and when topsoil is placed on the riverbank, it will be placed within the interstitial spaces of the riprap. This topsoil will be seeded along with the bank above the riprap but will not be covered with the erosion control mat.

About three-quarters of the way from the new boat ramp to the existing boat ramp, the city has planned to install riprap into the river to slow the velocity of the water in the area of the new boat ramp. The city has already obtained the riprap for this purpose. The cleanup/construction contractor will place this riprap during restoration activities. The configuration of the riprap placed in the water will be coordinated with the city.



## Section 6 References

CDM 2003a. Final Remedial Investigation and Removal Action Work Plan for Riverside Park. September.

CDM 2003b. Final Sampling and Analysis Plan, Remedial Investigation, Contaminant Screening Study, Revision 1. May.

## Appendix A Riverside Park Information Field Form

AD-	000748	/-
	000748	!

	7/
Soil samples collected (Date: _	•

## LIBBY ASBESTOS PROJECT Contaminant Screening Study

Primary Structure and Property Assessment Information Field Form (Primary IFF)

Field Logbook No.: 100275	Page No.: 60 Site Visit Date: _	9/15/03
Address: RIVER SIDE	DARK Structure Descrip	ption: PARK
Occupant WA		one Number
Owner (if different than occupant):_	city of Libby Ph	one Number: 293 - 273/
Business Name: NA		
Sampling Team: : BB HepoT	- (1) may Thereno c.D.	<u> </u>
Field Form Check Completed by (1	00% of forms): Dellare	
Screening Field Check Completed I		•
		<del></del>
Data Item	Valuè	Notes
HOUSE ATTRIBUTES		<u> </u>
Property Description	Residential Industrial Commercial	
. Surrounding Land Use	Residential Industrial Commercial	
•	School Mining -	
	Other:	
Year of Construction	- N/W Unknown	-
Square Footage	1/4	
Construction Material	Wood frame Masonry/Stone	
· · · · · · · · · · · · · · · · · · ·	Other N/14	
Number of Floors Above Ground	1 2 3 Other 1/1	
Number of Rooms Per Floor Above	1: 3:	
Ground	Other	_  , -
Basement ,	Yes No	
Heating Source -	Wood/Coal Electric Propane/Gas	
	Other) 1/15	
Heat Distribution	Forced air Radiant	
• •	Other Sele	

Address: River SIDE PARK

40-000748

Data item	Value	Notes
OCCUPANT INFORMATION		•
Was the residence/building remodeled?	Yes No	
	If yes, ' When (years): <2 2-5 >5	
	Where: Altic Living Areas Garage	
-	Basement	
	Other X/A	
Has resident/business purchased any Libby vermiculite materials from W.R. Grace in the post?	Yes No	-
Has the property at this location been used for a for-profit enterprise of distributing, treating, storing, or disposing of Libby vermiculite?	Yes No	
CONTAMINANT SCREENING STUDY AS	BESSMENT	
Occupant Information	_ ·	Verbal Interview Complete: 9/5/03
s there any knowledge of former miners, close relatives of miners, or any highly exposed persons living or visiting the operary?	Yes No	lf unknown, why?
s the resident, past or present, liagnosed with an asbestos-related lisease?	Yes No Unknown	if unknown, why?
ndoor information	□ Indoor VI	sual Inspection Complete: NA
reulation? -	Yes No - NA	If Unknown, why? PARK
ttle insulation?	Yes No No NA	If Unknown, why?
IA applies if attic currently has VCI		
- hulldha matariale?	Intermetti	If Unknown, why?  Type and location of building material

#### CSS Primary Structure IFF (continued)

Address: River SIDE PARK

SAZOOD-CH #GB-

Data Item	Value	Notes					
Location of indoor vermiculite (circle all that apply)	Attic Walls Crawl Space None Visual in Living Space: Basement, Ground Floor, Second Floor, Attached Garage	If in living space, provide specific location:					
Outdoor Information	Other: N/14-	/Isual Inspection Complete; 9/16					
Location of outdoor vermiculite (circle all that apply)	Oriveway Flowerbed Garden Yard Former Flowerbed Former Garden Stockpile None Other PARK						
Overall Assessment Complete: 9/5/03	Preconnaissance (Verbal Interview, Indoor, Ou	idoor Inspection)					
Are primary source materials present at he property?	No No						
Where are primary source materials ocated?	Inside Outside - NA	NA applies if no primary source materials are located at the property					
	iartial access or sample collection issues)	plant operations.					

CSS Primary Structure IFF (continued)

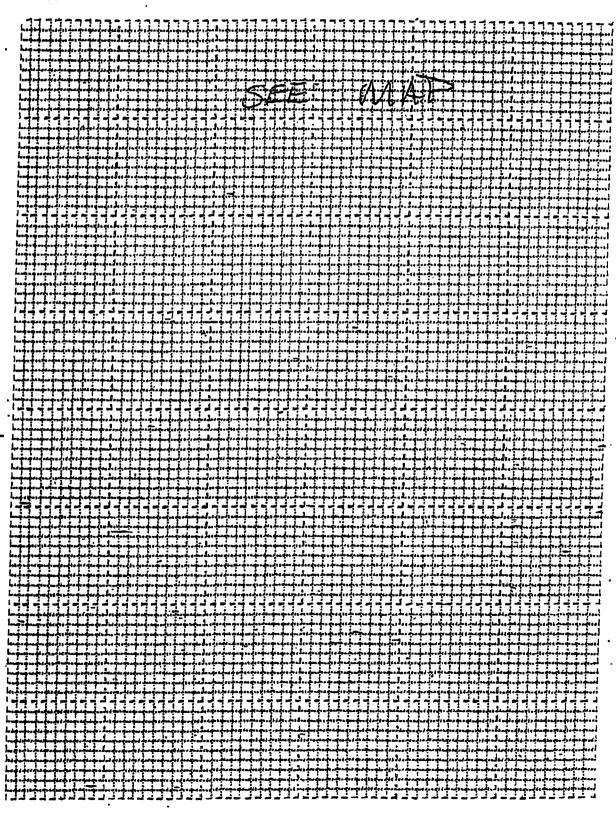
Address: RIVESIDE PARK

1 000 748

#### FIELD DIAGRAM OF PROPERTY

identity important features (i.e. drainage, trees, gardens, structures, flowerbeds, utility poles, known underground utilities, suspected Libby amphibole source areas, sample locations, etc). Include north arrow.

NOT TO SCALE



## Appendix B Riverside Park Logbook Pages



RWEESIDE PARK
Location OFF PA 9/9/03 Date 9/9/03 21
Location Client LIBOY RS BESTOS/ U.S. EPA Region 8

level A moures TO DIRECT & MYOS Ismobile band ue proper purez are undeenced weed ER TO CUT THIS NSIZE - Dee ware - Chicken 49/400 describes to thick what weeds o Be Dove . Chuck calls employee? someone from & Ri will Meet S'E RUMENIAE PARK E 1300 -FOR LEST PITTOS makow 9[6/03 moling. e :0900. 30,5 - ER arrives lower - speak Jode :: Merrell Taylor - WALL SITE . F. excelle what we peed. Murell paints. Leus by Buat but areas, of Lut Eamp and areas, whose L.U. is wasking STO THE QUEE BY THE PLUCE BANK the area wed so explains that ... a storage area be L.U. May

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ES /U.S. EPA Resign 8	observo e surrector de sante	MSP-123158	La Vicuaty ar	CS- 16689 www. SP- 123159	CS- 16690 SP- 123159	Sub sample of AREA 554- No 548 small was collected from this AREA.	South Red , Castord, Webreat & Center	SSP- 123160	Roser 4415 9/9/03	
Project Client LIBBY ASPESTESS (U.S. EPA Region RWCBIUS PARK ECHY OF LIBBY AD-GOOTYS	W TRACE L.V. OBS	SS3 CS- 16688 PSP- 1.	EASTERN SUB-SAMPL IN AREA	54 CS- 16689 PEIEU DATA SUCE DA	r - al	1	Sections	SSS CS- 16691	Jest !!	
15 (U.). Est Region 5 15 (U.). As- CED 748	properties for soil	AREA - NO SAMPLE COLLEGED PAY 1463 [410 - ATTENOT TO COLLECT SAMPLE	yearnoullie abserved - NO SAMPLE COLLECT SAMPLE	Uponicula in ordine area - ino sande calecies 425 Attempt to collect sande of	Verniculik 10 entire after	come it bother	2- 16686 WYSP- [23   56	SP- 123157	12 - ROBERT WOLF - 7/2/1	
Location RWCESUR PARK Project/Client LASSY ASSERDS (C RWLEDGE PARK (CH1 - F LUST)	SAMILIA.  SAMILIA.  SAMILIA.  THUS. ATTEMAT TO COLLECT RS 7 BY	AREA - NO SAMPLE COLLECT SAMPLE 100 LOLLECT SAMPLE ROLLECT SAMPLE ROLLECT SAMPLE RS. 100 COLLECT SAMPLE	1415 ATTOMET TO	Leavent in orther 1425 ATTEMPT TO	Significant bouncolik	OUCE COME boat comp By	HSO CS- 16686 PMS	1506. CS-16687	- 11-12 DATE SHE	

Location RIVESUE PARK Project / Client LIBBY ASBESTES RUCEUSE PARK Chin OF LASTI 5P- 123161 CS- 16692 FIELD DATA SHEET 005726 /SP- 123162 CS- 16693 PIECO DATA SHEETY L.U. OBSLEVES IN MREAS, SSY CS- 16694 F1210 041A 34227 SP- 123317 CŚ- 16695, 065727 CS- 16696 SP- 123318 FIELD DATA SHEET ROB CRT

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Location Riverside PARK Date 9/10/03 27

Project/Client LIBBY ASSESTESS / U.S. EAS RESSON 8

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Project / Citent LIBY ASBESTUS / U.S. EPA Region & City of LIBET ASBESTUS / U.S. EPA Region &

RUCESIOE PARK Arme e speak wise Merrell 747 la frang ER. All Utilities are macked, with The exception of City of Libby he the city of ER MARKS UTILINES - phore, pure + CABLE are MARKED! DBZS- Dec Winer meurs wasite ER STILL, COLATARS OFICETED . Supposedly there is a scure we through the area- but be lucares because ut is pl Merrell Taylor believes there a couple of lives that our thrugh the area. ER trus LY! USENG. METAL STICKS CWITCHING TI FU Speak with Day Thede from the - City of , Be UN TUP OF daces live by tor WITCHING METHOD DIT AY - and traces it to mater 10/4c. - Move 7431 PIN HUNT - 9/12/03

Dola 9/12/43 CS- 16837 WAY WE MOIST. - NO LIV, Location Russing DARK DT. # 14-FIEW DATA SURFACE Stul , lass, moust - L.C. 1C37 TC37 3945 - STARCE PIT #5/-Project / Client LAGG Y C14 0F 4684 Est 0.5 4 chr Pit S 10925 1010 on paved rock auce staro - Thuse deavings May har dd. Dea Wahren calls arry panes road. Think is an area while OF Likey to come bound to Pelvension Parek to conferm where and if Asbestas / U.S. EM BOSELL & Hyde are no unter Jahu Kovusu is prefixent 6"33.0". P.C. 16 12 welly SAND, win sur 7975 AD-045748 Test pet # 4 " - f-c sampy GRUBL (Rugh BANE) LOCATION RIVERSIGE PARK , Dale 9/12/03 כונג סב משפגlives running through the area - worth water lines exist in the area, that RUN Dropused A PEIUE , representate de coky of Ilibby, みつつ TOST START CXGUATING OGWA. CIEN OF CIRBY
THERE ARE NO LULY & proposel excautering. -AFIN - Speaking with cuty claims that area C++1. of 11:464 Project / Client LIBBY CKCANATIONS

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3-2" In the Gravelly SAND, Grayex Blaum OBSURACE O SUBACE 4362105 / U.S. EA Polled & lux, moist - with - mornelles signerly, "- 3.5" Grapin Abun sity f.m skun, SIGNIFICANT LIV. per lower #4 GKANATINE TEST is moved 30° LW. -0-6" collectes 12-18" Sueer wostay 2"-G" Crayesty Grow Sethy Pm M-000 48 CS- 16835 /Sp. 123336 1026 - START CKUNATING TOST PIT Sp- 123337 F-m Geopletly SAND, TPS FICED DATA SHEET DOST34 \$ est pit # 5

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	1120 - BEFIN EXCHANGED OF TEST  A1106  A1106	18"36" - Grayus Beuns, Sieth Colled Tongs, Moist. 44 9/1266  Colled Test Pit & Sample 36-36"  [145]	FIELD DATA SHEET - ODS 735 RAY 41/2103  COLLECT DEPLOYE SANNE FROM TEST PAT L  TEST PIT 40 CS-16840 APSP-123340  (TREDA) PRELLS DATA SHECT DOS 735  [200- Herre Revenue austre in Rule Ray	HIS A SECOND
43 46 Location Rus OR Stoe PARIL Date 9/12/05 Project Chent LABY ASSECTUS (U.S. TAR Region B City of LABBY	4"-3.0" (Fraying Brown, F-M 5400)  - trace - 1.141c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  - trace - 1.161c 5.11   643c Moi.57 . 1  -		DARL GRAYIN BRUMM elly saus were selberger, e. moust.  Graying Brunn C.  C. Graying Brunn C.  All said were part Lung.	CS- 16836,

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Project Clent Live 4 4300 Stass   49   12/67 49   Project Clent Live 4 4300 Stass   45 - Croso 74 & Ab - Croso	SAUD, with SICT, with Congrae!  To colobes. Cours Angura , To be Russon  12"-36" Librar (Revenues) G. Part  O Saur Sand Litt With	Collect 1657 Pit # 10 Sumple 34.36"	1510 - & Can CYCAUATION OF TEST PIT #9 TEST PIT #9 nn 9/12/61 PIT #9 L.V. C SURFACE An 2/12/63 D.C. Brunning Gay SICT F-M	Stepificant L.V. O-6"-Amost all L.U - 2"-3-0" (Srums), Gray Sirp F.M. 5/2-0 Luss Moist.	EST Product Test Por 9 semile 12-1411  P-9  CS-16844
5. EPA Kyw. B AB-80078B (1.167	11.4	1630 - COULTET 1627 PT A 1 SOUND 36-38" MOUST 17 TEST PT A 1 SOUND 18 TEST 18	60 cm 4 (12 kg) 1510 -	65-16842 y SP-123342  A SHELF GOS-13C pm. 7/12/03  B COIN EXGNATION OF TEST	[620] CON [620]

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	SILT, CLUSE MONT. CRORN BASE J SILT, CLUSE MONT. CRORN BASE J SUMMER TO CALL IT A LENS - CHOUGH TO CALL IT A LENS - CLUST LU. IS PRINCENT JUNT FLUT LU. IS PRINCENT JUNT BELOW THE COURT DON'T GRAY SICKT -R-C SAUD, WITHIT	Cobses 1, Rounders 1, Louse, moust codoles bounders and sub rounded to sub Annual 1705. Collect Test pri sample round test por CA 36-38" Test filch CS-16846 SP-123346 Field Onth safe; 005737.	
Project Client LIBSY ASSESTED U.S EAT PRECEDS  Coly or Libry  S30 -   ER + CDM   Cxxx   ZONE - WIRP	Sudeer To exchange in poly + more  He exchange (By Heaver) +2 1625  BY CHANGE TO THE F TO THE STATE OF THE ST	Brownsh Gray fra 16th Steinstant Lay 4 Brownsh Gray fra 1ct; anth fra Stein growd ( tobby Sub ru	FIELD DATA SHEET CS-16845 MSP-123345 FIELD DATA SHEET COSTIGNED OOS737 1618 - MASHULE TO TEST PIT BY CA 1618 - BEGIN EXCAMPTION OF TEST PIT # CA POR HILL TEST P

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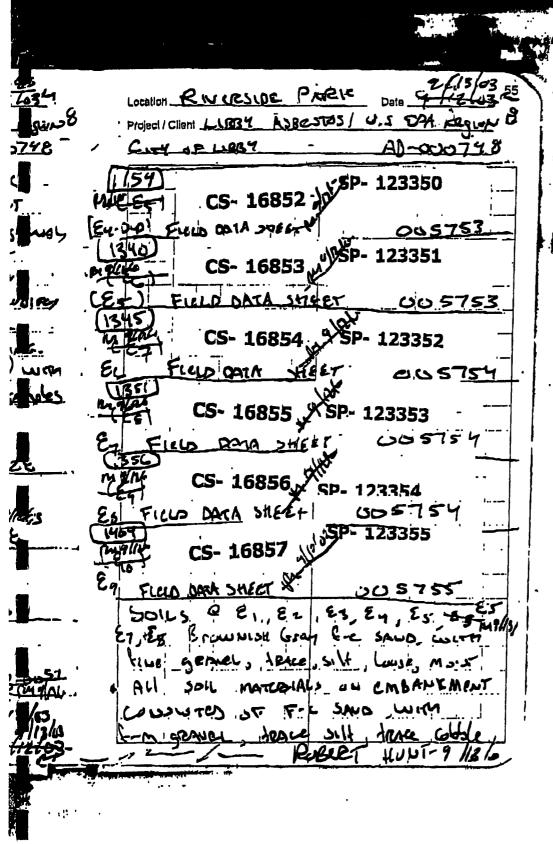
"4-E

1Cs. Pa 47

RUCESIDE PARK Project / Client LIBGY ASSESTOS CITY OF LIBBY 0900, Arrue RIVERSIDE PARK SOIL SAMPLIE OF ENSIRENEUT CITY scale Roas By Hishugi 37. GRID OFF Somple Weathers grios Rigger HUNT - DARRY collect sou samples - Music ZAMBEAVO level D-PPE. Soil sample AREAS sprayed with where price to sampling Soil surcint equipment is decorned with WATER + SCRUB BRUSH BOTHER SAN CS- 16848 Engunera 1 FLELD DATA SHEET CS- 16849 ELLO DOTA SHEET 005726 CS- 16850 005728 FLUD DATA SHEET

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PARK Location Rivering 7 11363 Project / Client LIBSY ASSESTES Lun observes SUBJICE ROLD-KOUTCHAI RIVE. 1420 - More to THE apposite ALUNG CITY SERVICE SMANURANT - LINNARWS <u>-50 f+</u> Locastans are Geld SP- 123356 (ISOL) 005755 FLEID OATH SHEET SP- 123357 CS- 16859 005755 FLEW DAM SHEET CS- 16860 K SP- 123358 FLELD DATA SHEET 405755 (L521) CS- 16861 E13 FIELD DAMA SHEET R 005756 526 MELD DATA SHEE acruss unsuhument OBSERVED CITY SLEVICE ROOD aF Be concurry

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10 4/16/4 RUNESIDE PARLE Project / Client Libby Assess (U.S. EAR Region & City of Libby BASE OF UMALIPMENT. CTRKE-Mosere anounts). Marrey simule to soil the HE SLOR 67. COM , SECURE RUAD - F-C SAND with & sparel, have sult trace colode RIVENDE PARK. Fundred e

### Appendix C Riverside Park Field Sample Data Sheets



Sheet No.: P1-S-0012

#### PHASE 1 INVESTIGATION LIBBY, MONTANA FIELD SAMPLE DATA SHEET

city Service Rd - Boat Ramp Area

Scenario No.: NA	Field Logbook No: 100210	Page No: 5 -C	Sampling Date: 5/22/03
Address;	HOMET ST By Bro	Selzowner/Tenant:	ITT OF LIBBY
Business Name: C	ITY OF LIBBY WHE	EFFERST PARCE TO 5/28/	/03
Land Use: Reside		Mining Roadway Othe	Receivement - PAR
Sampling Team	CDM MACTEC Other	Name(s):	seet than
		Do	le Muxikof
Data Item	Sample 1	Sample 2	Sample 3
Index ID	1-07851	1-07852	1-07853
Location ID	SP- 121240	SP- 121241	SP- 121242 3
Sample Group	noneh	property	prycery
Location Description	DN ROMP -7 CUPYCTE PAD AREA Closest TO RUEL	middle -> Aphalt Area	ON ROMP TOP - Asphalt ARRA
Category (circle)	FD	(\$) FB	(F)
Matrix Type (circle)	Mining Waste Subsurface Soil Surface Soil Fill Other	Mining Waste Subsurface Soil Burface Soil Fill Other	Mining Waste Subsurface Soil Fill Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	1105	1115	1125
Top Depth (in.)	0	9	0
Bottom Depth (in.)			
Map Location	R,	R 1	RZ
Field Comments	Ramp - Courselpun	Parp-	Ramp -
	Closest to River	middle Asphal Druc am	Ashet Dre See skercy Visiace Jernicular
ألمعايان المعالمات المعالم	see skeach	See sleach	UISIACE JERMICULTE
QC (Field Team) DEM Entered (LFQ) PS	Vdipe: Validated	Volpe: Entered Validated	Volpe: Entered Validated
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NO.208 P.3/18

### Sheet No.: P1-S- 001211 PHASE 1 INVESTIGATION LIBBY, MONTANA FIELD SAMPLE DATA SHEET

	301L-L1	KE WA ERIALS	
Address:  Business Name: _  Land Use: Reside	Boat Ramp (Kuste NA Hwys  ential School Commercial	Mining Roadway Othe	er(Town)
Sampling Team:	CDM MACTEC Other	Name(s): Pau	Jen Hugela Rassas Fring Hou
Data Item	Sample 1	₹0 Sample 2	Sample 3
Index ID	1-07731	1-07732	_ /
Location ID	SP- 121164 -	SP- 121165	- /
Sample Group	Yard Juneway	Principal 67/19/0	2 (57)
Location Description			
<b>D</b> il	N\$5 edges of asserted pad crefer to diagram)	E of concrete pad Creter todiagrem	) po/
Cátegory (circle)	FD	FS FD	FS
Matrix Type (circle)	Mining Waste Subsurface Soll Surface Soll Fill Other	Mining Waste Subsurface Soil Surface Seil Fill Other	Mining Waste Subsurface Soil Surface Soil Fill Other
Type (circle)	Grab Comp#subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples
Sample_Time	1018	10-2-2	
Top Depth (in.)	0-	0	
Bottom Depth (in.)	6	.6	/ <del>·</del>
Map Location	D <sub>1</sub>	Da	-
Field Comments	Varmiculite noticed in sample	Vermiculite noticed in sample	
			,

Volpe:

**Entered** 

Validated

QC (Fleid Team)

Entered (LFO) 25

Volpe:

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Sheet No.: CSS-S- 005725

#### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

` میا			- 1 1		
Scenario No.: NA Field Logbook No: 100275 Page No: 22-23 Sampling Date: 9/9/03					
Address: RIVERIOE PARK OWNED Tenant: City of LIBRY					
Business Name:			•		
Land Use: (circle)	Residential School Comm	nercial Mining Roadway	Other (PARK)		
Sampling Team: (c	ircle) CDM MACTEC O		my Zamszewo		
	l .	Robz	et Hunt		
Data Item	Sample 1	Sample 2	Sample 3		
Index ID	CS- 16689	CS- 16690	CS- 16691		
Location ID	SP- 123159	VSP- 123159	SP- 123160		
Sample Group	PARK-CRS4)maleh	PARK (SSY-DUP)	PARK (555)		
Location Description (circle)	Back yard Front yard Side yard Driveway Other ARC 554	Back yard Front yard Side yard Driveway ARCS Arca 554	Back yard Front yard Side yard Dniveway Other Are St. 555		
Category (circle)	FD of Field Blank (lot or equipment)	FS  FU of CS-16689  Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)		
Matrix Type (Sprices soil upless other wise socied)	Surface Soil Other	Surface Soil Other	Surface Soil Other		
Type (circle)	Grab Comp. # subsamples	Comp. # subsamples 84	Grab Comp. # subsamples		
Sample Time	1538	1547	1558		
Top Depth (in.)	ບ ,	٥	0		
Bottom Depth (in.)	, 6 .	. 6	. 67		
Field Comments Note if vermiculite is visible in sampled area	Samples collected e contre power 25's, 25'E, +25'W	9/9/3 DD-AD 000 748 Samples collected & contact ADINT, 25'S, 25'E,,25 to	Parties allecres e correr, 25'5, 25'4', 25'E, +25'0		
,	LIV. OBSERVED IN NORTH SECTION - NO SHE SAMPED	COLLECTOS  COLLECTOS	NO LIV-		
Entered (LFO) PS	Volpe: Collegion Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated		
V					

For Field Team Completion QC by D.Z Completed by\_ (Provide Initials)



Sheet No.: CSS-S-

#### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No · NA	Field Logbook No: 1002	75 Page No. 24 Sa	mpling Date: 9/9/63
_		Owner Tenant: C1	ty of Libbic
Business Name:		COMplete Legislativi C.	1, 0, =1009
_	D13. 41.1 . O.11 . O.	orania Dela Dela Dela dela con	GOV DARK
Land Use: (circle)		nercial Mining Roadway	, <u> </u>
Sampling Team: (	circle) CDM MACTEC O		<b>7</b> —//
	1		obcet flut
Data Item	Sample 1	Sample 2	Sample 3
Index ID		CS- 16693	CS- 16694
Location ID	SP-123161	SP- 123162	Sp- 123163
Sample Group	PARK (SS6)	· Park (SS7)	PARK CRS2
Location Description (circle)	Back yard Front yard Side yard Drivpway Other Age 55c	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other Alea R57
Category (circle)	FD of	FD ofField Blank (lot or equipment)	FD ofField Blank (lot or equipment)
Matrix Type (Surface soil unless poher wise paled)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5
Sample Time	1602	1609	1619
Top Depth (in.)	0	٥	٥
Bottom Depth (in.)	146	6	. , 6
Field Comments Note if vermiculite is visible in sampled area	Same collecte e cente, 25'4, 25'5, 25'Er 25'4	Sample, collected e control 25' H, 25'5, 25' E, 125' W	Samples cultered & Center, is N, 1015, 1018 that wo - ON SLOPE
	NO LIVI UBSERVED	NO L.V. OBSCEVES	NO LIVI GOSCENES
Entered (LFO) AS	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated
	For Field Team Completion Comp	pleted by PM QC by I	SZ 00.0

P.6/18 NO.208

Sheet No.: CSS-S-\_

#### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No,: NA	Field Logbook No: 60275	Page No: 24 Sa	mpling Date: 9 (9603
Address: Rive	SIDE PARIS	Owner Tenant: Cify	OF LIBBY
Business Name:			
	Residential School Comm	mercial Mining Roadway	Other (PARK )
	rirele) CDM MACTEC O		• •
			PRET HUNT
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16695	CS- 16696	
Location ID	SP- 123317	SP- 123318	g
Sample Group	PARK (RS5)	PARK CRSG)	
Location Description (circle)	Back yard Front yard Side yard Driveway Other Avec RSS	Back yard  Front yard  Side yard  Driveway  Ther Awa Colo	Back yard Front yard Side yard Driveway Other
Category (circle)	FD of Field Blank (lot or equipment)	FD of	PS FD of Field Blank (b) or equipment)
Marrix Type (Surface soil unless other wise noted)	Surface Soft Other	Surface Soil Other	Surface Spill
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples
Sample Time	1637	1642	N .
Top Depth (in.)	0	0	
Bottom Depth (in.)	1 16	., 6	· /
Field Comments Note if vermiculite is visible in sampled area	Samples collectes @ correct, to' N, 10'S, 10'E	Samples collectes e contre, loin, lais, loie	BD-
	NO L.U. absceves	NO L.V. absences	·
Entered (LFO) PS	Volpe: Entered Validated	Volps:  Entered Validated	Volpe; Entered Validated
	r Field Team Completion Comp	pleted by RH QC by T	2

(Provide Initials)

Sheet No.: CSS-S-

#### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.; NA Field Logbook No: 100275 Page No.5455 Sampling Date: 9/13/03  Address: Kiver SIDE PARK Owner Tenant: C.+4 of Likby
Business Name:
Land Use: (circle) Residential School Commercial Mining Roadway Other PARK)
Sampling Team: (circle) CDM MACTEC Other Names: DANNY ZAMBIANO ROBERT HENT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16848	C5- 16849	CS- 16850
Location ID	SP- 123347	SP- 123348	SP- 123349
Sample Group	PARK (E-1)	PARK (EZ)	PARK (E3)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Frea E	Back yard Front yard Side yard Driveway Other Area	Back yard Front yard Side yard Driveway Other Area E 3
Category (circle)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface still unless other wise apred)	Surface Soil Other) SURSCAPALE	Surface Soil Other	Surface Soil Other
Type (sircle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	1135	1140	1145
Top Depth (in.)	0	8	.0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	NO L.V.	NO L.V. OBSUVED	NO LIV. UBSERVEJ
Entered (LFQ) 49	Volpe; Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)

Completed by D.Z

QC by R

005729 Sheet No.: CSS-S-\_

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

		ra sheet (f5D5) for	
Scenario No,: NA	Field Logbook No: 106275	Page No: 27/2 & an	apling Date: 9/10/13
	CESVIE PARK		
Business Name;	71261		
Land Use; (circle)	Residential School Comm	nercial Mining Roadway	Other (PARK)
-	ircle) CDM MACTEC O		
		Ros	eet HUNT
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16698	CS- 16699	CS- 16700
Location ID	₩ SP- 123319		SP- 123321
Sample Group	PARK CTP, )	PARK CTP,)	PARK CTP3)
Location Description (circle)	Back yard Front yard Side yard Driveway Other) Area TP	Back yard Front yard Side yard Driveway Other Mrea To 2	Back yard Front yard Side yard Driveway Other  Area Toza/a/a/a/
Catagory (circla)	FS FD of	FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surfice soil unless other wise notes).	Surface Soil DZ 9/10/03- Other Sursut Hace	Surface Soil Other Subsurface	Surface SOIL
Type (circle)	Grab Comp. # subsamples	Grab Comp, # subsamples	Grab Comp. # subsamples
Sample Time	1010	1035	1100
Top Depth (in.)	B324/10/03 36"	B329/0/00 36"	140
Bottom Depth (in.)	6 12 4/10/03 38"1	\$ 02 9/14/03 39"	16!
Field Comments Note if vermiculity is	BD: AD-000748	-BD- UD 00748	-87-MD 00748
visible in sampled area	HO HET IN # 1	NO KATAIN # 2 Test Pit	NO LIV. OBSERVED IN SAMPLE
Reserved (I FO) OF	Volpe:	Volpe:	Volpe:
Entered (LFO)	Entered Validated	Entered Validated	Entered Validated
Fa	r Field Team Completion	district by DZ OChi	RY

(Provide Initials)

NO.208 P.9/18

Sheet No.: CSS-S- 005

#### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	A Field Logbook No: 10627	25 Page No:27/28 San	ipling Date: 9/10/03
Address: Ruce	ERSIDE PARK	Owner/Tenant: City	of Libby
Business Name:			,
Land Use: (circle)	Residential School Comm	nercial Mining Roadway	Other PARK )
Sampling Team:	(circle) CDM MACTEC O	ther Names: Robe	ET HUNT DANNY ZANDO
			/
Data Item	Sample 1	Sample 2	Sample 3
Index ID		1/2	
-	CS- 16821	la)	
Location ID	SP- 123322	- OX	37
•			
Sample Group	PARK (TP 42 ANU	. PURK (TP 4/)	\(\bar{\cappa}\)
Location Description	Back yard	Back yard	Back yard
(circle)	Front yard Side yard	Front yard Side yard	Front yard Sids yard
	Other) Area TOUTP	Other (UREA TP4)	Driveway Other
Category (circle)	- FS	FS	FS
Chickets (oners)	FD of	FD of	FD of
	Field Blank (lot or equipment)	Field Blank (lat or equipment)	Field Blank (lot of equipment)
Matrix Type (Surface enil unless other wise mased)	Surface Soil Other SUBSURFACE	Surface Soil Other SARSEFIKE	Surface Soil Other
Type (circle)	Grab	Grab	Grap
	Comp. # subsamples	Comp. # subsamples	Comp. # subsamples
Sample Time	1125		
Top Depth (in.)	36"		
Bottom Depth (in.)	38''	. 7	
Field Comments Note if vermiculite is	-BD- AD 000748	-BD- MD000748	BD-
visible in sampled area	NO L.U.	<i> </i>	
	UBSCENCE		/ ' '
			/
	Volpe:	Volpe:	Nolpe;
Entered (LFO) ps	Entered Validated	Entered Validated	Entered Validated
	Por Field Team Completion Com	pleted by RH QC by E	).Z.
•	(Provide Initials)		\ \ \ \ \ \ \

(Provide Initials)

NO.208

P. 10/18 734

Sheet No.; CSS-S-

## CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.; NA	Field Logbook No: 1002	275 Page No: 43-51 Sar	mpling Date: 9/12/03	
Address: Riversibe PARK Owner/Tenant: City of Libby				
Business Name;				
Land Use: (circle)	Residential School Comm	nercial Mining Roadway	Other PARK)	
•		ther Names: Roll		
Sampling Team: (ci	TELE) CDIVI MACTEC O	inter Names: <u>ROE</u>	ZAMONAVO	
Data Item	Sample 1	Sample 2	Sample 3	
Index ID	CS- 16835	CS- 16836	CS- 16837	
Location ID	SP- 123336	SP- 123337	SP-123338 SP-123338	
Sample Group	PARK (TP4)	PARK (TP4-4)	PARK (TPS)	
Location Description	Back yard	Back yard	Back yard	
(circle)	Front yard Side yard	Front yard Side yard	Front yard Side yard	
. i	Driveway Other 194	Driveway Other Put	Driveway Other 775	
Category (circle)	FS FD of	FD of	FS	
•	Field Blank (lot or equipment)	Field Blank (lot or equipment)	Field Blank (lot or equipment)	
Matrix Type (Surface sail unless other when papel)	Surface Soil Other SUBSIRFACE	Surface Soil Other SUBSURFACE	Surface Soil Other SUBURFACE	
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp, # subsamples	
Sample Time	1/25 0925	1110	1010	
Top Depth (in.)	36°	36"	12"	
Bottom Depth (in.)	38"	38. " "	18"	
Field Comments Note if vermiculite is	BD- 40 000 748	-BD- ADDO 747	TE 000 748	
visible in sampled area	NO LV	NO LV 14	NO LV iN	
	IN Sample	NO LV in	SAUAlle	
	Volpe:	Volpe:	Volpe:	
Entered (LFO) PS	Entered Validated	Entered Validated	Entered Validated	

For Field Team Completion Completed by D.Z QC by RY

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NO.208

Sheet No.: CSS-S-\_

005735

#### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Address: Pive	Field Logb	ook No:// ek	<i>20275</i> F	Page No <u>: 4</u> er/Tenant:	3-51 Sar	npling Date; 5/1	2/03
Business Name:					_	,	,
Land Use: (circle)	Residential	School	Commercial	Mining	Roadway	Other ( PARK	)
Sampling Team:	(circle) CDM	) MACTE	C Other	Nar	nes: POBE	T HAT/ 1	HINY
							HARMIO

		1	
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16838	CS- 16839	CS- 16840
Location ID	SP- 123339	SP- 123340	SP- 123340
Sample Group	PARK TP-8	PARK TP-6	PARK TA-6 DUP
Location Description (circle)	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Drivesyay Other	Back yard Front yard Side yard Driveway Other
Category (circle)	FD of Field Blank (lot or equipment)	FS FD of Field Blank (lpt or equipment)	FD of C5-16 839 Field Blank (lot or equipment)
Matrix Type (Surfers soil unless other wise noted) .	Surface Soil Other Surface	Surface Soil Other SURSUZFACE	Surface Soil Other) SUBSURFACE
Type (circle)	Comp. # subsamples	Grab Comp. # subsamples	Grah  Comp. # subsamples
Sample Time	1035	1145	1150
Top Depth (in.)	36"	36"	36"
Bottom Depth (in.) .	38"	387	38''
Field Comments Note if vermiculite is visible in sampled area	NO 41 IN	BD- ADOCO 748	No Liv. asserts
	SAMPLE	OBSERVED IN SAMPLE	· (N SAMPLE
Entered (LFO)	Volpe; Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)  Com	pleted by D, Z QC by RY
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Sheet No.: CSS-S- 005736

## CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 43-51 Sampling Date; 7/2/03  Address: R: VER 51DE PARK Owner Tenant; C. Ly of C. bby
Business Name:
Land Use; (circle) Residential School Commercial Mining Roadway Other PAR )
Sampling Team: (circle) CDM MACTEC Other — Names: ROBERT HUNT DAMES

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16841	CS- 16842	CS- 16843
Location ID	SP- 123341	SP- 123342	SP- 12534342
Sample Group	PARK CTP 11)	PARK (TDIA)	PARK (TID 10)
Location Description (circle)	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other
Category (circle)	FS FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise access)	Surface Soil Other SUBSURFACE	Surface Soil Other SUBSURFACE	Surface Soil Other SUBSURFACE
Type (circle)	Grab  Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	1430	1435	1500
Top Depth (in.)	36 "	₹,	36"
Bottom Depth (in.)	38"	38"	3841
Field Comments Note if vermiculite is yisible in sampled area	ADDOOMS  NO LV  IN SAMPLE	NO LV / N SUMPLE	NO LV IN SAMPLE
Entered (LFO)	Volpa; Entered Validated	Volpe; Entered Validated	Vqlpe; Entered Validated

(Provide Initials) Completed by D. 2 QC by R. M	For Field Team Completion (Provide Initials)	Completed by D. Z	QC by RY
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Sheet No.: CSS-S-\_

P.13/18 00573

#### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 43-51 Sampling Date: 9/12/03  Address: Rivers DE DARK Owner Tenant: City of Libby	\$
Business Name:	
Land Use; (circle) Residential School Commercial Mining Roadway Other PARK)  Sampling Team; (circle) CDM MACTEC Other Names: ROBERT HUNT/DANNIV	
Sampling Team; (circle) CDM MACTEC Other Names: ROBERT HUNT/DANNY	;

			`
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16844	CS- 16845	CS- 16846
Location ID	SP- 123344	SP- 123345	SP- 123346
Sample Group	PARK CTP9/	PARK LTP7)	PARK CITPGAL
Location Description (circle)	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway	Back yard Front yard Side yard Driveway Other
Category (circle)	FS ( FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FD of
Matrix Type (Surface and unless about wise maked)	Surface Soil Other Sugswither soic	Surface Soil Other Surswither Jail	Surface Soil Other SUSSURFACE SOIL
Type (circle)	Comp. # subsamples	Grab Comp. # subsamples	Comp. # subsamples
Sample Time	1520 .	1608	1700
Top Depth (in.)	12"	14"	36 "
Bottom Depth (in.)	1400	164	3,8 11
Field Comments Note if vermiculite is visible in sampled area	NO LV in sample	16 4 16 4 NO LV IN SAMPLE	NO 46 14 SAMPLe
Entered (LFO) <u>P5</u>	Volpe: Rntered Validated	Volpe: Entered Validated	Volpe; Entered Validated

For Field Team Completion	Completed by CH	001. 04
(Provide Initials)	Completed by 1911	QC by RY

NO.208

P.14/18

Sheet No.: CSS-S- 005739

#### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No: 100 27	5 Page No: 12-23 Sar	mpling Date: 9/9/03
Address: Ruce	SIDE PARK	Owner Tenant: CITY	of LIBRY
Business Name;			
Land Use: (circle)	Residential School Comm	nercial Mining Roadway	Other ( PARK )
Sampling Team; (c	irele) CDM MACTEC O	ther Names: Danu	4 ZAMBELNO
		Rose	CET HUNT
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16686	CS- 16687	CS- 16688
Location ID	SP- 125156	SP- 123157	SP- 123158
Sample Group	Park CRS + 201613	Park CRS. 1/4 1/4	& PARK (RS3) make
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area 551	Back yard (552) Front yard Side yard Driveway Other Area 552	Back yard Front yard Side yard Driveway Other Area 55
Caregory (circle)	FS FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface poli unless orbor wire notos))	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab ————————————————————————————————————
Sample Tims	1450	1506	1519
Top Depth (in.)	Q	0	0
Bottom Depth (in.)	. 6	<u> </u>	6
Field Comments Note if vermiculite is visible in sampled area	AD AD OOD 748 By 9/9/63  Aligher Samples colleges @ -center point25' N -25' W -25' S No Liv25' S OBSERVES	ADADOZAB  Sub samples collected  e - center, 25'N, 25'S,  25'E, FZ5'W.  NO LIV. OBSENCED  IN SAMPLE	SUB SAMPLES COLLECTED E-COLTER, 25'N, 25'S Z5'E, 125'W. TRACE L.V. OBSERVED IN VICINITY OF EST. SUB SAMY
Entered (LFO) PS	Volpe: Entered Validated	Volpe: Entered Validated	Volpe; Entered Validated
	r Field Team Completion Comprovide Initials)	pleted by RH QC by	52 2

00575

Sheet No.: CSS-S-

### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	• • • • • • • • • • • • • • • • • • • •	5 Page No: 54-55 San	npling Date: 9/13/03
Address: Diver	- SIDE PLEK	Owner/Tenant: C.7	v of libby
Business Name: _			
Land Use: (circle)	Residential School Comm	nercial Mining Roadway	Other PARK )
Sampling Team: (c	ircle) CDM MACTEC O	ther Names: <u>ROBE</u>	
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16851	CS- 16852	CS- 16853
Location ID	SP- 123350	SP- 123350	SP- 123351
Sample Group	PARK (E4)	PARK (DUP-Ey)	PARK (ES)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area KEy	Back yard Front yard Side yard Driveway Other Area Ey	Back yard Front yard Side yard Driveway Other Area
Category (circle)	FS FD of Field Blank (lot or equipment)	FD of	FD ofField Blank (lot or equipment).
Matrix Type (Surface soil unless other wise notes)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grah Comp. # subsamples 5	Grab Comp. # subsamples	Grab Comp. # subsamples 5
Sample Time	1150	1154	1340
Top Depth (in.)	0	0	. 0
Bottom Depth (in.)	6	6	. 6
Field Comments Note if vermiculite is visible in sampled area	AD AD AND THE NO LIV OBSERVES	NO LIV.	NU L.V.  OBSLEVES
Entered (LFO) A5	Volpe: Entered Validated	Volps: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials)	Completed by 72	QC by RM

P.16/18

Sheet No.: CSS-S- 005754

#### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 54-55 Sampling Date: 9/3/03	_
Scenario No.: NA Field Logbook No: 100275 Page No: 54-55 Sampling Date: 3/3/03  Address: River SIDE PRE Owner Tenant: City of Libby	_
Business Name:	
Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK )	
Sampling Team: (circle) CDM MACTEC Other Names: DAHLY ZAMBITALO ROBERT HUNT	
KOBERT HUNT	_

		N-DEN/ 1/	
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16854	CS- 16855	CS- 16856
Location ID	SP- 123352	SP- 123353	Sp. 123354
Sample Group	PARK (E6)	PARK (E7)	HAK (E8
Location Description (circle)	Back yard Front yard Side yard Driveway Other Frea	Back yard Front yard Side yard Driveway Other Acca E	Back yard Front yard Side yard Driveway Other
Category (circle)	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Spribes soil unless other was person)	Surface Soil Other SUR DZ 9/13/03	Surface Soil Other	Surface Soil Other
Type (circle)	Grabi Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples
Sample Time	1345	1351	1356
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6.	ي	Q
Field Comments Note if vermiculite is visible in sampled area	- NO. LIV. OBSURIED	NO LIV.	NO C.V.
Entered (LFO) PS	Volpe: Entered Validated	Volpe: Entered Validated	Volpe; Entered Validated

For Field Team Completion (Provide Initials) Completed by D Z QC by

NO.208

P.17/18

Sheet No.: CSS-S-

005755 005755

### CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

•		51	<b>&gt;</b> //
Scenario No.: NA		Page No:54-55/ Sam	
Address: Kiv	ERSIDE PARK	[Owner/Tenant: city	of Libby
Business Name:			-
Land Use: (circle)	Residential School Comm	nercial Mining Roadway	Other PARK)
Sampling Team: (ci	ircle) CDM MACTEC Otl	ther Names; ROBE	RT HUNT
·		DANA	4y CAMBIANO
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16857	CS- 16858	CS- 16859 10 63
Location ID	SP- 123355,	SP- 123356	SP- 123357
Sample Group	DARK (E9)	PARK (E 10)	PARIC (E11)
Location Description (circle)	Back yard Front yard Side yard Driveway Other  A rea E 9	Back yard Front yard Side yard Driveway Other FREA	Back yard Front yard Side yard Drive yay Other  ARLA E
Category (circle)	FS FD of Field Blank (lot or equipment)	PS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface apply agrees other wise golds)	Surface Soil Other	Surface Sail Other	Surface Soji
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples	Grab Comp. # subsamples 25
Sample Time	1464	1501	1508
Top Depth (in.)	0	0	O .
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area		MANNERATE L.V.	Moderate
7	OBSCENES W SAMPLE	MUDERATE L.V.	C.V OBSERVED
	Vqlpe:	Volpe:	Volpe;

For Field Team Completion (Provide Initials)	Completed by DZ	QC by DM

Entered

Validated

Validated

Entered

Entered (LFO) 25

Entered

Validated

Sheet No.: CSS-S- 005756

# CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA	Field Logbook No: 1002 25510E Park	Page No: 56 Sar Owned Tenant: Cik	mpling Date: 7/23/03
Business Name:	,		
Land Use: (circle)	Residential School Comm	nercial Mining Roadway	Other PARK)
		_	RT HUNT JUANNY ZAMBIANO
Data Item	Sample 1	) Sample 2	Sample 3
Index ID	CS- 16860	CS- 16861	CS- 16862
Location ID	SP- 123358	SP- 123359	SP/23360
Sample Group	PARK EN 12)	PARK EURIS	PARK /F/2/4
Location Description (circle)	Back yard Front yard Side yard Driveway Other ARea Eg	Back yard Front yard Side yard Driveway Other Rea E 3	Back yard Front yard Side yard Driveway Other  DZ 9/13/03  DZ 9/13/03
Category (circle)	FS FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Authers and united attent when social)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples 57	Grab Comp. # subsamples	Grab Comp. # subsamples, 5
Sample Time	1514	1521	1526
Top Depth (in.)		0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	TRACE-LIHLE.	TRACE L.V.	BD- AD-000748
	Liv. asserves	Cisseeved	. NO LV in Sumple
Entered (LPO) ps_	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated
<b>y</b>			

For Field Team Completion (Provide Initials)

Completed by QC by Q1

QU3.03

### Appendix D Riverside Park Laboratory Bench Sheets



Hard copy data was not received at the time of this document production. Data will be provided at a later date.